

CLAIMS

1. An igniter comprising a housing; a stop member within said housing; a fuel reservoir within said housing; a nozzle in fluid communication with said reservoir; an actuating assembly within said housing for controlling the supply of fuel from said reservoir to said nozzle and for igniting fuel discharged from said nozzle; and a trigger including a trigger body and a slider coupled to said trigger body, said trigger body moveable between a first position and a second position along a first path, said trigger body operating said actuating assembly when in said second position, said slider moveable along said trigger body between a first position and a second position along a second path different from said first path, said slider having a first portion arranged outside said housing and a second portion arranged inside said housing, said second portion of said slider arranged in interfering relationship with said stop member when said slider is in said first position whereby said trigger body is precluded from movement from said first position to said second position thereof, and said second portion of said slider being arranged in non-interfering relationship within said stop member when in said second position whereby said trigger body is moveable from said first position to said second position thereof for operating said actuating assembly.
2. The igniter of claim 1, wherein said first path is a linear path.
3. The igniter of claim 1, wherein said first path is an arcuate path.
4. The igniter of claim 1, wherein said second path is at an angle greater than 30° to said first path.
5. The igniter of claim 1, wherein said second path is at an angle of about 50° to said first path.

6. The igniter of claim 1, further comprising a spring coupled between said slider and said trigger body, whereby said slider is biased towards said first position.

7. The igniter of claim 1, wherein said trigger body is pivotably attached to said housing for rotation along said first path.

8. The igniter of claim 1, further comprising a trigger guard attached to said housing forming an opening, said trigger body and said slider accessible within said opening.

9. The igniter of claim 1, wherein said trigger body includes a first portion for operating said actuating assembly for controlling the supply of fuel from said reservoir and a second portion for operating said actuating assembly for igniting said fuel.

10. The igniter of claim 9, wherein said first portion of said trigger body comprises a projection arranged in operative association with a gas lever operative of a gas valve for controlling the supply of fuel from said reservoir.

11. The igniter of claim 9, wherein said second portion of said trigger body comprises a bridge arranged in operative association with a piezo-electric unit for igniting the fuel discharge from said nozzle.

12. An igniter comprising a housing; a stop member in said housing; a fuel reservoir within said housing; a nozzle attached to said housing; a burner within said nozzle; a valve for opening and closing a path of fuel from said reservoir to said burner; a piezo-electric unit for generating a discharge voltage for lighting said fuel; an operation member which effects operation of the valve and the piezo-electric unit for lighting said igniter; said safety device comprising a trigger including a trigger body and a slider movably coupled to said trigger body, said trigger body moveable between a first position and a second position along a first path, said trigger body actuating said operation member when in second

position, said slider moveable along said trigger body between a first position and a second position along a second path different from said first path, said slider having a first portion accessibly arranged outside said housing and a second portion inaccessibly arranged inside said housing, said second portion of said slider arranged in interfering relationship with said stop member when said slider is in said first position whereby said trigger body is precluded from movement from said first position to said second position thereof, and said second portion of said slider being arranged in non-interfering relationship within said stop member when in said second position whereby said trigger body is moveable from said first position to said second position thereof for actuating said operation member.

13. The igniter of claim 12, wherein said first path is a linear path.

14. The igniter of claim 12, wherein said first path is an arcuate path.

15. The igniter of claim 12, wherein said second path is at an angle greater than 30° to said first path.

16. The igniter of claim 12, wherein said second path is at an angle of about 50° to said first path.

17. The igniter of claim 12, further comprising a spring coupled between said slider and said trigger body, whereby said slider is biased towards said first position.

18. The igniter of claim 12, wherein said trigger body is pivotably attached to said housing for rotation along said first path.

19. The igniter of claim 12, further comprising a trigger guard attached to said housing forming an opening, said trigger body and said slider accessible within said opening.

20. The igniter of claim 12, wherein said trigger body includes a first portion effecting operation of said valve when in said second position.

21. The igniter of claim 12, wherein said trigger body includes a second portion effecting operation of said piezo-electric unit when in said second position.

22. An igniter comprising a housing; a fuel reservoir within said housing; a valve within said housing for opening and closing a path of fuel from said reservoir; a piezo-electric unit within said housing for lighting said fuel discharged from said reservoir; and a safety device comprising a trigger including a trigger body and a slider coupled to said trigger body, said trigger body moveable between a first position and a second position along a first path, said trigger body actuating said valve and said piezo-electric unit when in said second position, said slider moveable along said trigger body between a first position and a second position along a second path different from said first path, said slider having an accessible first portion and a second portion arranged in interfering relationship with a portion of said housing when said slider is in said first position whereby said trigger body is precluded from movement from said first position to said second position thereof, and said second portion of said slider being arranged in non-interfering relationship within said portion of said housing when in said second position whereby said trigger body is moveable from said first position to said second position thereof.

23. The igniter of claim 22, wherein said first path is a linear path.

24. The igniter of claim 22, wherein said second path is at an angle greater than 30° to said first path.

25. The igniter of claim 22, wherein said second path is at an angle of about 50° to said first path.

26. The igniter of claim 22, further comprising a spring coupled between said slider and said trigger body, whereby said slider is biased towards said first position.

27. The igniter of claim 22, wherein said trigger body is pivotably attached to said housing for rotation along said first path.

28. The igniter of claim 28, wherein said trigger body includes a first portion for operating said valve and a second portion for operating said piezo-electric unit.

29. The igniter of claim 28, wherein said first portion of said trigger body comprises a projection arranged in operative association with said valve.

30. The igniter of claim 28, wherein said second portion of said trigger body comprises a bridge arranged in operative association with a piezo-electric unit.

31. The igniter of claim 22, wherein said trigger body comprises a pair of spaced apart walls attached at one end by an end wall having a slot therein.

32. The igniter of claim 31, wherein said slider is arranged between said spaced apart walls adjacent said end wall, said slider having a rib extending outwardly through said slot.

33. The igniter of claim 22, wherein said housing comprises a pair of opposing housing halves, said portion of said housing comprising a stop member extending inwardly from at least one of said housing halves.

34. The igniter of claim 33, wherein the length of said stop member is longer than the travel distance of said trigger body along said first path.

35. The igniter of claim 22, wherein said first path is an arcuate path.